

Maine Department of Transportation Approved Products List Prequalification Criteria

Concrete Curing Compounds Liquid Membrane Forming

Sections: 502 – Structural Concrete, 700 – Materials

Specification

All curing compounds must conform to the requirements of AASHTO M148 (ASTM C 309) for Type 1-D or Type 2.

Effective July 1, 2006, only products whose test results have been published by the National Transportation Product Evaluation Program (NTPEP) will be considered for inclusion on the Approved Products List (APL). All manufacturers are urged to submit their products to the NTPEP for evaluation. Further, all curing compounds presently listed on the APL must be tested through the NTPEP program by January 1, 2008. Any product that has not been tested by that date will be removed from the APL. NTPEP has introduced partial electronic application for its Concrete Curing Compound program and will accept applications on a rolling basis with pre-established deadline for submitting to the yearly testing cycle. Applications are available online for product evaluation in the next available Spring or Fall testing cycle. Deadlines for application are posted on the NTPEP website. It is the manufacturer's responsibility to submit application to AASHTO/NTPEP, this initiating the product evaluation process. Please contact NTPEP at the following address for more information:

**AASHTO/NTPEP
c/o NTPEP Project Engineer
444 North Capitol Street, NW, Suite 249
Washington, DC 20001
Website: www.ntpep.org**

It should be noted that the NTPEP program provides for uniformity and equivalence testing to allow for periodic re-certification of products previously evaluated by NTPEP. After initial NTPEP testing, products listed on the APL should be submitted to NTPEP for re-certification every five years. Failure to do so may precipitate a product's removal from the APL.

The Department will review submitted information to assure conformance with the material requirements shown in Table 1. Following a review of submitted information, the Department reserves the right to request a sample of the product for conformance testing in the Department's laboratory or for trial use in the field.

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**Concrete Curing Compounds
Liquid Membrane Forming**

TABLE 1

- ✓ Type 1-D, clear or translucent with fugitive dye which must be readily distinguishable for at least four (4) hours and must be inconspicuous in seven (7) days and
- ✓ Type 2, white pigmented.
- ✓ Must not contain sodium-silicate.
- ✓ Must be of a consistency capable of application by means of pressure spraying, brushing, or rolling to a minimum of 40°F.
- ✓ Minimum application rate of 200 ft²/gal.
- ✓ Must be capable of being stored for at least six (6) months without deterioration.
- ✓ Type 2 compounds must not settle out excessively or cake in the container during storage. Must be capable of being mixed to a uniform consistency with moderate stirring or agitation.
- ✓ Type 2 compounds shall exhibit a daylight reflectance of not less than 60%.
- ✓ Volatile portion shall neither be toxic nor have a flash point less than 50°F.
- ✓ Maximum Volatile Organic Compounds (VOC) not to exceed 350 grams per liter.
- ✓ Must restrict the loss of water to not more than 1-¼ lbs./square yard in 72 hours.
- ✓ Compounds shall dry to the touch within four (4) hours.

Required Submissions

1. Completed Preliminary Information for Product Evaluation Form
2. Applicable MSDS information
3. Any other pertinent literature such as technical data sheets and letters of acceptance from other Departments.

The Department continues to evaluate its qualification criteria as well as products that have been qualified against them, and reserves the right to revise the criteria and/or withdraw product qualification at any time for any reason without notice.

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